

ABSTRACT

A control device of a vehicle motor includes a temperature sensor that detects a temperature of each coil, each coil supplying an alternating current to a corresponding phase of the motor and a controller that controls a torque of the vehicle motor; detects a stalled state of a vehicle; detects a current phase angle of the vehicle motor; and selects one of the temperatures detected by the temperature sensor based on a detected current phase angle, wherein the torque of the vehicle motor is reduced when the stalled state of the vehicle is detected and when a selected temperature exceeds a restrictive temperature.

~~A vehicle includes a control device for controlling a motor and the torque of the motor. The control device selects a temperature from detected phase temperatures on the basis of a phase θ of currents (Steps 200 to 218). When the vehicle is stalled, and when the selected temperature exceeds a restrictive temperature, the control device controls the motor so as to reduce the torque.~~